CHRONICLE

Contents of the Next Issue of *Opticheskii Zhurnal* (*Journal of Optical Technology*)

DOI: 10.1134/S0030400X11120241

The following papers on the topic *Laser Physics and Technology* will be published in the October special issue of *Opticheskii Zhurnal* (Journal of Optical Technology), Vol. 78, No. 10, 2011.

Preface by the issue's editor (L.N. Soms).

A Mode-Locked CO Laser for Uranium Isotope Separation in a Free Jet (I.Ya. Baranov and A.V. Koptev);

A Transmitting Laser Module with the Switchable Directivity Diagram for the Space Vessel *FOBOS-GRUNT* (V.M. Plolyakov, V.P. Pokrovskii, and L.N. Soms);

A Piezocorrector for Compensation of Thermal Variations in the Optical Cavity Path Length of a Laser Gyroscope (N.P. Zapotyl'ko, A.A. Katkov, and A.A. Nedzvetskaya);

A Piezo Actuator for a Ring Laser Gyroscope (N.P. Zapotyl'ko, A.A. Nedzvetskaya, and I.N. Polekhin);

An Algorithm for Signal Processing of an Interference Angular Null Indicator for Calibration of Prisms with Faces without Reflective Coating (Yu.V. Filatov and M.S. Nikolaev);

The Pulse Length in a Spatial Chirp of a Two-Grating Delay Line (A.V. Gitin and A.A. Andreev);

Lead Borate Oxyfluoride Glasses Doped with Nd³⁺ Ions and Transparent Glass Ceramic Materials on

Their Basis (O.B. Petrova, A.V. Popov, V.E. Shukshin, and Yu.K. Voron'ko);

Quantitative Determination of the Calcium Ion Content from Fluorescence Measurements of Single-Long-Wavelength Dyes Using Laser Scanning Microscopy (Yu.N. Zakharov and A.V. Ershova);

Thermal Imaging Monitoring of the Microcirculation Blood Heating Processes during Low-Intensity Laser Therapeutic Procedures (D.A. Rogatkin, K.S. Litvinova, D.S. Makarov, O.A. Bychenkov, and M.I. Shcherbakov);

Optimization of the Transfer Characteristics of Erbium Fiber Amplifiers by a Genetic Algorithm (M.A. Khodasevich, G.V. Sinitsyn, and Yu.A. Varaksa);

The Effect of the Light Bleaching on Watercolors in Restoration of Graphic Artworks (S.A. Dobrusina, N.S. Volgushkina, and N.G. Gerasimova);

The Effect of the Nonlinear Numerical Speckle Pattern Processing on the Accuracy of the Displacement Determination in Speckle Photography (A.A. Grebenyuk and V.P. Ryabukho);

A Setup for Determination of the Spatial Characteristics of Laser Radiation (A.V. Isaevich and A.V. Kholenkov).

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